

**WASHINGTON STATE DEPARTMENT OF HEALTH  
OFFICE OF FOOD SAFETY AND SHELLFISH PROGRAMS**

**ANNUAL GROWING AREA REVIEW**

**PREPARED BY:** Donald Melvin, Environmental Specialist

**AREA:** Nahcotta

**YEAR ENDING:** December 31, 2005

**CLASSIFICATION:** Approved, Prohibited

**ACTIVITIES IN THE GROWING AREA IN 2005:**

Samples were collected from each station in the growing area 6 times during the year using the systematic random sampling method.

**ANALYTICAL RESULTS OF WATER SAMPLES:**

Table #1 summarizes the results of all samples collected from the area. This summary shows that all stations in the area pass the NSSP water quality standard. Station #187 is threatened due to elevated levels of fecal coliform. Individual sample results for station #187 are shown in Table 2.

**CHANGE IN ACTUAL POLLUTION SOURCES THAT IMPACT THE GROWING AREA:**

We currently have no water quality information indicating that the area has new sources of pollution.

**CLASSIFICATION STATUS:**

- ☐ Well within the classification standards
- ☐ Meets standards but some concerns
- ☒ Meets standards but threatened with a downgrade in classification
- ☐ Fails to meet classification standards

**REMARKS AND RECOMMENDATIONS:**

Table #1 shows that all stations meet the NSSP water quality standards for approved classification and the area is correctly classified. Pollution sources in the vicinity of station #187 should be investigated.

**TABLE 1****SUMMARY OF MARINE WATER DATA (SRS)**Growing Area: **NAHCOTTA**Classification: **Approved,Unclassified**

From 11/16/2000 To 11/30/2005

**FECAL COLIFORM ORGANISMS/100 ML**

<b>Station Number</b>	<b>Classification</b>	<b>Number of Samples</b>	<b>Range</b>	<b>Geometric Mean</b>	<b>Est. 90th Percentile</b>	<b>Meets Std.</b>
163	Approved	32	1.7 - 23.0	2.4	6.0	Yes
164	Approved	31	1.7 - 23.0	2.0	4.0	Yes
165	Approved	31	1.7 - 11.0	2.1	3.0	Yes
166	Approved	31	1.7 - 4.5	1.9	2.0	Yes
167	Approved	31	1.7 - 7.8	1.9	3.0	Yes
168	Approved	31	1.7 - 4.5	2.0	3.0	Yes
169	Approved	31	1.7 - 14.0	2.0	3.0	Yes
170	Approved	31	1.7 - 13.0	2.0	3.0	Yes
171	Approved	31	1.7 - 13.0	2.1	4.0	Yes
172	Approved	31	1.7 - 13.0	1.9	3.0	Yes
173	Approved	31	1.7 - 13.0	2.1	4.0	Yes
174	Approved	31	1.7 - 13.0	1.9	3.0	Yes
175	Approved	31	1.7 - 21.0	2.0	3.0	Yes
176	Approved	31	1.7 - 9.3	2.0	3.0	Yes
177	Approved	31	1.7 - 13.0	1.9	3.0	Yes
178	Approved	30	1.7 - 11.0	1.9	3.0	Yes
179	Approved	31	1.7 - 13.0	1.9	3.0	Yes
180	Approved	31	1.7 - 7.8	2.2	4.0	Yes
181	Approved	31	1.7 - 7.8	1.9	2.0	Yes
182	Approved	31	1.7 - 6.8	1.9	2.0	Yes
183	Approved	31	1.7 - 7.8	1.9	3.0	Yes
184	Approved	31	1.7 - 13.0	2.3	5.0	Yes
185	Approved	31	1.7 - 13.0	2.2	4.0	Yes
186	Approved	31	1.7 - 23.0	2.1	4.0	Yes
187	Approved	31	1.7 - 130.0	7.7	38.0	Yes
200	Unclassified	12	1.7 - 33.0	4.5	15.0	*N/A
201	Unclassified	12	1.7 - 7.8	2.7	5.0	*N/A

All tides information is presented

The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/100 ml and an estimate of the 90th percentile not greater than 43 organisms/100 ml. The above table shows bacteriological results in relation to program standards.

\* N/A - SRS criteria require a minimum of 30 samples from each station. \*

**TABLE 2****SUMMARY OF SHELLFISH GROWING AREAS  
WATER QUALITY STUDY RESULTS**Growing Area: **NAHCOTTA**Sampling Station Number: **187**Classification: **Approved**

Sample Date	Sample Time	Tide	Fcoli/100ml	Temperature	Salinity
11/16/2000	14:03	Flood	2	7	22
02/08/2001	12:44	Flood	4.5	6	12
03/21/2001	12:54	Ebb	1.7	10	20
05/23/2001	14:53	Flood	33	16	16
08/01/2001	13:00	Flood	17	17	30
10/18/2001	14:52	Flood	13	13	25
12/05/2001	13:21	Flood	13	6	10
02/27/2002	12:39	Flood	2	7	13
04/10/2002	14:09	Ebb	11	12	20
05/08/2002	12:43	Ebb	1.7	13	20
08/21/2002	14:13	Flood	4.5	17	28
10/17/2002	14:56	Ebb	1.7	14	30
12/04/2002	13:21	Ebb	6.8	9	20
02/12/2003	12:33	Ebb	1.7	7	15
04/16/2003	13:09	Flood	9.3	10	15
05/14/2003	12:37	Flood	33	14	15
08/27/2003	14:31	Flood	49	20	30
10/08/2003	12:14	Flood	130	15	30
12/03/2003	13:04	Ebb	13	7	10
02/04/2004	13:32	Ebb	2	6	12
03/04/2004	13:26	Ebb	1.7	8	18
05/05/2004	14:22	Flood	33	16	20
07/14/2004	14:04	Ebb	1.8	20	24
09/15/2004	13:28	Flood	26	17	25
12/22/2004	12:31	Ebb	4.5	8	16
02/24/2005	12:58	Flood	4.5	7	19
04/20/2005	13:17	Ebb	2	11	14
06/22/2005	14:22	Flood	49	19	20
08/04/2005	14:17	Flood	7.8	21	26
10/18/2005	13:11	Flood	23	13	28
11/30/2005	13:12	Ebb	14	5	20

Number of Samples: 31

Geometric Mean: 7.7

Range: 1.7 - 130

Estimated 90th Percentile: 38

# NAHCOTTA

